ABSTRACT

THE MAKING PROCESS OF SECOND FRAMEWORK AND AXIS LIAISON BRENDER FLAME CUTTING MACHINE IN RADIUS

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The purpose of the preparation of this final project is to create a pivot frame 2 and the connecting shaft brender, identify the materials used, is able to identify machines that are used, knowing the tools that are used, can make the work steps in accordance with the procedure, knowing the time required in order to manufacture the shaft order 2 and the shaft connecting the engine Brender Flame Cutting Radius, and can determine the performance of order 2 and the pivot shaft connecting the engine brender Flame Cutting Radius.

The method used in the manufacture of order 2 and the pivot shaft connecting brender, is starting from the identification of types and sizes of materials used, the selection of machines used, the selection tool used, the determination of work steps that will be used, calculate the time required, and knowing the results of performance axis of order 2 and the shaft connecting the engine brender Flame Cutting Radius.

Materials used in the manufacture of order 2 and the pivot shaft liaison brender is mild steel (mild steel) ST37 series with size, for shaft order 2, is Ø12,7x470mm and to the shaft Liaison Brender, is Ø12,7x360mm. Machines used are handsaw, lathes. The equipment machine used is a long slide (vernier caliper), hammer, steel ruler, vise and safety equipment. While the work process is used that is, the process of cutting material, on turning process, and work processes bench. assembled shaft, and tried to operate machinery Flame Cutting Radius turns out there are still weaknesses in the time machine in operation. The downside is there are very influential on the performance of machine for the time machine is still operating on the shaft to vibrate because of revolution generated by a DC motor (Power Window) is not able to play the work the pulley shaft. The results of the performance of the saft, the shaft cannot function properly as expected because the shaft was still vibrate when the engine operates.

Keywords: Shafts, Pulley, Dc motors